EXHIBIT 22Filed Under Seal

Case 3:20-cv-06754-WHA Document 862-35 Filed 09/04/23 Page 2 of 23 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	UNITED STATES DISTRICT COURT
2	FOR THE NORTHERN DISTRICT OF CALIFORNIA
3	x
	SONOS, INC.,
4	
	Plaintiff,
5	vs. Case No. 3:21-CV-07559-WHA
6	GOOGLE LLC,
	Defendant.
7	x
8	-AND-
9	
10	UNITED STATES DISTRICT COURT
11	FOR THE NORTHERN DISTRICT OF CALIFORNIA
12	x
13	GOOGLE LLC,
14	Plaintiff,
15	vs. Case No. 3:20-CV-06754-WHA
16	SONOS, INC.,
	Defendant.
17	x
18	*HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY*
19	
20	REMOTE VIDEOTAPED DEPOSITION BY VIRTUAL ZOOM OF
21	DOUGLAS SCHMIDT
22	Thursday, February 2, 2023
23	
24	Reported By: Lynne Ledanois, CSR 6811
25	Job No. 5686109
	Page 1
	rage r

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1	THE WITNESS: Okay.	2:47PM
2	THE VIDEOGRAPHER: We're off the record.	
3	It's 2:47 p.m.	
4	(Recess taken.)	
5	THE VIDEOGRAPHER: We're back on the	2:56PM
6	record. It's 2:56 p.m.	
7	BY MR. HEFAZI:	
8	Q Now, you've opined that a standard	
9	device strike that.	
10	You've opined that a user device running	2:56PM
11	the accused YouTube applications is configured for	
12	playback of a Watch Next queue; rights?	
13	A That's correct.	
14	Q What is a Watch Next queue?	
15	A There is a discussion of that here on	2:56PM
16	Paragraph 128 in my opening report and then the	
17	further elaboration with a bit more color details is	
18	provided in Paragraph 60 in my reply report.	
19	So the Watch Next queue as discussed in	
20	Paragraph 128 of my opening report is the list of	2:57PM
21	media items provided by the YouTube cloud	
22	infrastructure for playback. That's what it says	
23	there.	
24	And then on Paragraph 60 in my reply	
25	report, I show a further elaboration of that showing	2:57PM
	Pag	ge 197

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1	that the Watch Next queue is the services that	2:58PM
2	provide are provided by the Watch Next playlist	
3	document service and playlist service capability.	
4	Q Okay. Is the Watch Next queue stored on	
5	the Watch Next servers?	2:58PM
6	A So it's the capability that's provided by	
7	the cloud infrastructure that we see here as shown on	
8	the picture at Paragraph 60 in my reply report.	
9	Q Is the Watch Next queue something that is	
10	stored somewhere?	2:58PM
11	MR. LEE: Objection, form.	
12	THE WITNESS: Well, the Watch Next queue	
13	is the capability that's provided by those services.	
14	BY MR. HEFAZI:	
15	Q So you keep saying the word "capability"	2:59PM
16	and my question is a little bit different.	
17	Is the Watch Next queue stored somewhere?	
18	MR. LEE: Objection to form.	
19	THE WITNESS: I'm not sure what you mean	
20	by "stored."	2:59PM
21	BY MR. HEFAZI:	
22	Q Okay. So you opined that in the YouTube	
23	Remote prior art, the playback queue is stored	
24	locally on a playback device; right?	
25	A That's correct.	2:59PM
	Pa	ge 198

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1	Q Applying that same understanding of	2:59PM
2	storage, is the Watch Next queue stored on the Watch	
3	Next server?	
4	A Again, it's stored by the ensemble of	
5	services that are shown in the figure on	2:59PM
6	Paragraph 60 or under Paragraph 60 in my reply	
7	report.	
8	Q Okay. So are you saying that a Watch	
9	Next the Watch Next queue is stored on each	
10	let me take a step back.	3:00PM
11	You understand that the Watch Next service	
12	is a collection of servers; right?	
13	A I understand there is a number of different	
14	servers that are running in the background in the	
15	what I think I refer to as the YouTube cloud	3:00PM
16	infrastructure at the bottom of Paragraph 59 of my	
17	reply report.	
18	Q Okay. So is the Watch Next queue stored	
19	on any of the servers associated with the Watch Next	
20	servers?	3:00PM
21	A Again, as shown in the figure in	
22	Paragraph 60 in my reply report, the Watch Next queue	
23	is the ensemble of services, including the Watch Next	
24	service, the playlist document service and the	
25	playlist service.	3:01PM
	Page	e 199

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1	Q So in your opinion, a queue does not need	3:01PM
2	to be stored anywhere?	
3	A No, that's not what I said.	
4	MR. LEE: Objection.	
5	BY MR. HEFAZI:	3:01PM
6	Q So in your opinion, a Watch Next queue	
7	does need to be stored somewhere?	
8	A As I'm saying that the Watch Next queue	
9	resides in the context of the Watch Next service, the	
10	playlist document service and the playlist service.	3:01PM
11	Q Okay. Is the Watch Next queue stored on	
12	each one of these services?	
13	A So	
14	MR. LEE: Objection to form.	
15	THE WITNESS: So I'm not sure that the	3:01PM
16	claims require there I don't think the claim I	
17	don't believe I've opined that the claims require	
18	there to be one place it's stored per se.	
19	But if we take a look at the interaction	
20	diagram at the top of Page 26, it shows the flow of	3:02PM
21	information involved in contacting having the	
22	client, the sender, contact the various services	
23	involved with managing the Watch Next queue.	
24	BY MR. HEFAZI:	
25	Q Okay. So my question was a little bit	3:02PM
	Pag	e 200

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1	different.	3:02PM
2	Is the is a copy of the Watch Next	
3	queue stored strike that.	
4	Is the Watch Next queue stored on each one	
5	of the services here, the playlist service, playlist	3:02PM
6	document service and Watch Next service?	
7	A I don't think I provide an opinion about	
8	specifically which service stores the Watch Next	
9	queue.	
10	The point I make throughout my report	3:02PM
11	my reports is that the YouTube cloud infrastructure	
12	provides this Watch Next queue, which is a	
13	combination of the Watch Next, playlist document	
14	server and playlist service I should use the word	
15	"service" here, not server. And they are what are	3:03PM
16	used to provide the list of media items for playback	
17	in the context of the claim elements.	
18	Q Okay. Turn to Paragraph 50 of your reply	
19	report.	
20	A Fifty?	3:03PM
21	Q Correct.	
22	A Okay. I see that.	
23	Q So in Paragraph 50 of your reply report	
24	you say, "the PlaylistService stores a list of media	
25	items selected for playback by the Sender in what	3:04PM
	Pag	ge 201

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1	Google refers to as a 'BigTable'." Right?	3:04PM
2	A Yes, I see that.	
3	Q What is a <mark>BigTable?</mark>	
4	A BigTable is a I believe it's a key value	
5	data structure or service I should call it a	3:04PM
6	service that's provided by Google both to be used	
7	by external parties as well as I believe used	
8	internally by Google in order to be able to look up	
9	values according to their key.	
10	Q So it's a large storage system?	3:04PM
11	A I don't know if	
12	MR. LEE: Objection.	
13	THE WITNESS: it's large, but the term	
14	"BigTable" would imply that it could hold a lot of	
15	items.	3:04PM
16	BY MR. HEFAZI:	
17	Q Okay. Is the BigTable a Watch Next queue?	
18	A So as I said before, there is a number of	
19	elements that are involved in providing the list of	
20	media items that are used for playback and the	3:05PM
21	discussion in Paragraph 50 talks about some of	
22	those some of those components, services.	
23	And later throughout that section from	
24	Paragraph 50 on downwards, it describes how the	
25	Watch Next queue, which is really the implementation	3:05PM
	Pag	re 202

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1	of all that ensemble of services, provides the	3:05PM
2	ability to give the information, to give the media	
3	items.	
4	Q Is the BigTable a Watch Next queue?	
5	A So as I say here as it describes at the	3:06PM
6	first part of Paragraph 50 that we're talking about,	
7	it's that ensemble of services, the Watch Next	
8	service, the playlist documentation service, the	
9	playlist service that work together to provide the	
10	media items for playback.	3:06PM
11	And this paragraph is just talking about	
12	how one piece of that ensemble, the playlist	
13	service, stores the list of media items selected for	
14	playback using a particular data structure, the	
15	BigTable.	3:06PM
16	Q Okay. Can you identify for me all the	
17	services that store the playback queue?	
18	MR. LEE: Objection to form.	
19	THE WITNESS: So, again, let me just take	
20	a quick look at something while I answer that	3:07PM
21	question.	
22	Okay. So the services that are part of	
23	the Watch Next queue ensemble as described here on	
24	Paragraph 50 include the Watch Next service, the	
25	playlist document service and the playlist service.	3:07PM
	Pag	ge 203

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1	Those are what together provide the capability of a	3:07PM
2	remote playback queue.	
3	BY MR. HEFAZI:	
4	Q Okay. So let's start with the let's	
5	start with the Watch Next service.	3:07PM
6	Does the Watch Next service store a	
7	playback queue that is the list of media items that	
8	is used for playback?	
9	MR. LEE: Objection to form.	
10	THE WITNESS: George, did I interrupt you?	3:08PM
11	MR. LEE: I said objection to form.	
12	THE WITNESS: The Watch Next service	
13	provides data that identifies the next media items,	
14	the video IDs that we've been talking about, in the	
15	Watch Next queue by making calls to the playlist	3:08PM
16	document service that that in turn makes calls to	
17	the playlist service.	
18	They work together as an ensemble to	
19	provide the list of media items for playback.	
20	BY MR. HEFAZI:	3:08PM
21	Q Okay. So if it makes calls to the	
22	playlist service to access the Watch Next queue,	
23	then that means the Watch Next queue is actually on	
24	a playlist service, correct, not the Watch Next	
25	service?	3:08PM
	F	age 204
- 1		

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1	MR. LEE: Objection to form. 3	:08PM
2	THE WITNESS: No. What I'm describing	
3	here is how the YouTube cloud infrastructure	
4	implements the remote playback queue that provides	
5	the list of media items for playback by the devices, 3	:09PM
6	by the playback device, for example.	
7	BY MR. HEFAZI:	
8	Q Okay. If I were to ask you in front of	
9	the ladies and gentlemen of the jury whether the	
10	Watch Next queue stores the entire list of media 3	:09PM
11	items selected for playback, what would your answer	
12	be?	
13	MR. LEE: Objection to the form.	
14	THE WITNESS: It's my understanding that	
15	the Watch Next queue meets the court's construction 3	:09PM
16	of a playback queue and that would imply that it was	
17	the list of media items that were used or selected	
18	for playback, it contained the entire list of media	
19	items selected for playback, it wasn't being used to	
20	merely process a list of media items for playback 3	:09PM
21	and it basically runs the show.	
22	That's what I would describe the Watch	
23	Next queue as doing in the context of the YouTube	
24	architecture.	
25		
	Page 2	:05

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1	BY MR. HEFAZI:	3:10PM
2	Q Okay. If I were to ask you whether any of	
3	the servers associated with the Watch Next service	
4	store the entire list of media items selected for	
5	playback, what would you say?	3:10PM
6	MR. LEE: Objection, form.	
7	THE WITNESS: I would say that the Watch	
8	Next service in conjunction with the playlist	
9	document service and the playlist service used as an	
10	ensemble is used to provide the list of media items	3:10PM
11	for playback.	
12	BY MR. HEFAZI:	
13	Q Okay. Can you tell the ladies and	
14	gentlemen of the jury whether the Watch Next service	
15	alone is going to store the entire list of media	3:10PM
16	items selected for playback?	
17	MR. LEE: Objection, form.	
18	THE WITNESS: It's my understanding that	
19	the Watch Next service plays a role in the Watch	
20	Next queue's ability to return the lists of media	3:11PM
21	items that are provided for playback.	
22	BY MR. HEFAZI:	
23	Q Okay. So the Watch Next service, those	
24	servers do not store the entire list of media items	
25	selected for playback; is that right?	3:11PM
	Pag	ge 206

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1	MR. LEE: Objection to form.	3:11PM
2	THE WITNESS: I think as I've said a	
3	couple of times, the purpose of the Watch Next queue	
4	is to provide the list of media items that are going	
5	to be used for playback and the Watch Next service	3:11PM
6	works together with these other two services, the	
7	playback document service and the playlist service,	
8	in order to be able to provide the capability of a	
9	remote playback queue in the context of the YouTube	
10	cloud infrastructure.	3:11PM
11	BY MR. HEFAZI:	
12	Q Sir, I'm not asking you whether they work	
13	together or anything like that.	
14	My question, if you could just focus on it	
15	because the judge is going to see this and so it's	3:12PM
16	important that you answer it.	
17	Is the entire list of media items selected	
18	for playback stored on the servers of the Watch Next	
19	service?	
20	MR. LEE: Objection to form.	3:12PM
21	THE WITNESS: So again, it's my	
22	understanding that the way things work is that the	
23	combination of services provide the list of items	
24	that are going to be used for playback.	
25	I'm looking at this analysis Alice from	3:12PM
	Рас	ge 207

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1	the point of view of the claims of the '033 patent	3:12PM
2	and focusing on what has to be satisfied in order	
3	for the claims to be infringed.	
4	And it's my opinion, my understanding that	
5	the Watch Next queue is what plays the role of the	3:12PM
6	remote queue in the context of the cloud	
7	infrastructure portion of the patent.	
8	BY MR. HEFAZI:	
9	Q Have you cited any source code in your	
10	report showing the Watch Next queue?	3:13PM
11	A Well, there's references to a whole bunch of	
12	different elements in terms of the elements of the	
13	play the playlist service and the playlist document	
14	service.	
15	Q Let's go to your opening report.	3:13PM
16	A I'm sorry?	
17	Q Let's go to your opening report.	
18	A Okay.	
19	Q Take a look at Paragraph 243.	
20	A Okay.	3:13PM
21	Q Is the Watch Next service store sorry,	
22	strike that.	
23	In Paragraph 243 you said the source code	
24	below shows "that a YouTube sender has the	
25	capability to operate in a mode in which the YouTube	3:14PM
	Page	e 208

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1	Sender is configured for playback of the Watch Next	3:14PM
2	queue." Right?	
3	A This is Paragraph 242?	
4	Q 243.	
5	A Oh, 243. Sorry. Okay.	3:14PM
6	Q Does any of this code identify where the	
7	Watch Next queue is stored?	
8	A If I'm correct, this is code that looks like	
9	it's coming out of the Android portion.	
10	And so as you can see here, this is	3:15PM
11	referring to things like the Watch Next fetcher,	
12	which is going up I think as I talked about when we	
13	were describing Paragraph 50 in my reply report,	
14	that it uses that to get data identifying the next	
15	media items, the next set of video IDs that the	3:15PM
16	Watch Next queue will be providing back to the	
17	receiver and so on, or the client depending on the	
18	configuration of the mode that it's currently in.	
19	So the code that we're showing here is	
20	showing how the Android client will fetch that	3:15PM
21	information.	
22	Q Okay. And the Android client does not	
23	store Watch Next queue; right?	
24	A The Watch Next queue, as I've described	
25	elsewhere, is stored as part of the YouTube cloud	3:16PM
	Pag	e 209

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1	infrastructure.	3:16PM
2	Q Okay. And so none of this code is code	
3	that stores the Watch Next queue; right?	
4	A The discussion that we're having here is for	
5	Claim Element 1.4 and I think the operative aspects	3:16PM
6	there is the showing that the YouTube sender has the	
7	capacity to operate in a mode where the YouTube sender	
8	is configured for playback of the content that the	
9	media items that are going to be returned by the Watch	
10	Next queue in order to play them back.	3:16PM
11	So this is looking at a different part of	
12	the claim.	
13	Q Okay. Let's go down a little bit. Okay.	
14	Take a look at Paragraph 248.	
15	A I see that.	3:17PM
16	Q It says, "The following code demonstrates	
17	that the YouTube cloud infrastructure has the	
18	capability to provide the Watch Next queue for	
19	playback." Right?	
20	A That's correct, yes.	3:17PM
21	Q Can you tell me where this Watch Next	
22	service, the list of media content selected for	
23	feedback is stored, which one of these files is the	
24	one that stores the list of multimedia content	
25	selected for playback?	3:18PM
	Page	e 210

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1	MR. LEE: Objection to form.	3:18PM
2	THE WITNESS: So I think what this is	
3	showing is this is server-side code that we expect	
4	to run in a cloud environment.	
5	And it's demonstrating how the code that's	3:18PM
6	implemented here receives requests from clients like	
7	an Android client or an iPhone for that matter and	
8	is able to respond to those requests by making other	
9	requests to other parts of the overall Watch Next	
10	queue ensemble of services that we talked about	3:18PM
11	before, including the Watch Next service, the	
12	playlist documentation service and the playlist	
13	service.	
14	BY MR. HEFAZI:	
15	Q Does any of this code manage the storage	3:18PM
16	of the Watch Next queue?	
17	A This part of the code, as I recall, is used	
18	to provide media items let me just make sure I'm	
19	reading the right thing.	
20	Yes, it's my understanding that the Watch	3:19PM
21	Next service, the code we were just looking at,	
22	provides data back to the sender or I guess	
23	depending on who it's talking to, can also provide	
24	it to the receiver, whoever is contacting it.	
25	It provides data that identifies the next	3:19PM
	Pag	ge 211

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1	media items in the form of video IDs that are going 3:19PM
2	to be offered up by the Watch Next queue as part of
3	the list of media items to playback.
4	Q So the data structure that stores the
5	Watch Next queue is not a part of the code that you 3:19PM
6	list in your Paragraph 248 on Page 77?
7	A Part of the code that's shown here on
8	Paragraph 248 and below has do with how the client,
9	whoever is calling this thing, can get access to the
10	video IDs that are being provided by the Watch Next 3:20PM
11	queue for playback.
12	Q And where are they being provided from?
13	MR. LEE: Objection to form.
14	BY MR. HEFAZI:
15	Q Who's providing them? 3:20PM
16	A The combination of the services we have been
17	talking about. The Watch Next service does part of
18	it, the playlist document service does part of it, the
19	playlist service also does a part of it.
20	Q So the Watch Next queue is not stored in 3:20PM
21	any one place?
22	A Again, I am a little unclear, but my
23	assignment here is to understand, through a variety of
24	different means, how the YouTube cloud infrastructure
25	for this part of the claims infringes the patents. 3:21PM
	Page 212

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1	And so when I read the patent claims, I don't see	3:21PM
2	something where it says it's stored in such and such a	
3	place.	
4	So I'm describing for you what's actually	
5	in the claim elements which have to do with being	3:21PM
6	able to provide lists of media items for playback,	
7	to paraphrase.	
8	Q Okay. So in your opinion, the remote	
9	playback queue does not need to be stored in any one	
10	particular place?	3:21PM
11	A It can very well be stored in one place.	
12	The key aspects of the claim, however, are for it to	
13	be able to practice the claim elements, for example,	
14	to be able to operate in a mode that is going to allow	
15	the cloud infrastructure to provide the list of media	3:21PM
16	items for playback.	
17	Q And the list of media items, the entire	
18	list of media items in the accused YouTube	
19	applications, are they stored on one server or	
20	multiple servers?	3:22PM
21	MR. LEE: Objection to form.	
22	THE WITNESS: They can be stored various	
23	ways in various places at various times. The real	
24	issue here from my perspective is whether or not I'm	
25	able to demonstrate how the claims of the patent are	3:22PM
	Page	e 213

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1	infringed by the various instrumentalities at issue	3:22PM
2	here.	
3	So in this particular case, we're looking	
4	I think at the part having to do with Claim	
5	Element 1.4 about configuring the computing device	3:22PM
6	to playback a remote playback queue.	
7	BY MR. HEFAZI:	
8	Q So let's turn to Page 78 of your opening	
9	report. You cite some code here on Page 78 for the	
10	playlist service; right?	3:22PM
11	A Which paragraph?	
12	Q It's part of Paragraph 248, but Page 78.	
13	A Page 78, that's right at the top of the	
14	page, "Playlist Service."	
15	Q Okay. And do any of the pieces of code	3:23PM
16	that you've cited here manage the storage of the	
17	Watch Next queue?	
18	A Yes, in addition to the other things we've	
19	talked about. So I think there's some examples.	
20	Looking here at Line 8, "Playlists of all	3:23PM
21	types can be treated as basic playlists. They	
22	represent an ordered list of videos."	
23	There is a discussion on Lines 9 and 10	
24	about having a way to access and manipulate	
25	playlists stored in a BigTable.	3:24PM
	Pag	e 214

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1	There's discussions on Line 13 or 14 about	3:24PM
2	loading playlists, giving their full list IDs and	
3	more. There's	
4	Q Does the Watch Next queue have to be	
5	strike that.	3:24PM
6	So you say in Line 10, "a playlist is	
7	stored in the BigTable"; right?	
8	I see that there is a describing what the	
9	playlist service header file is saying that the	
10	this file contains a collection of RPCs to access and	3:24PM
11	manipulate playlists stored in the BigTable.	
12	Q So does the BigTable store the entire list	
13	of multimedia content selected for playback?	
14	MR. LEE: Objection to form.	
15	THE WITNESS: So, again, what's described	3:24PM
16	in Paragraph 50 of my reply report is that the	
17	playlist service stores lists of media items	
18	selected for playback by the sender in what Google	
19	refers to as the BigTable, which is identified by a	
20	playlist ID.	3:25PM
21	And playlist service provides video IDs	
22	from media items from that stored list to the	
23	playlist document service that returns the video IDs	
24	to the Watch Next service.	
25		
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1	BY MR. HEFAZI:	3:25PM
2	Q Okay. So in your opinion, does the	
3	BigTable store the Watch Next queue?	
4	A I think as I've been describing throughout	
5	the questioning, the Watch Next queue is a capability	3:25PM
6	that's provided by an ensemble of services including	
7	Watch Next, playlist document service and playlist	
8	service.	
9	And together they are what are used to	
10	provide the lists of media items for playback.	3:25PM
11	Q Okay. So the Watch Next queue is just a	
12	capability, it's not an actual data structure that's	
13	stored somewhere?	
14	MR. LEE: Objection to form.	
15	THE WITNESS: It's an ensemble of services	3:26PM
16	that work together to provide the remote playback	
17	queue service or capability that's described and	
18	disclosed in the claims of the '033 patent.	
19	BY MR. HEFAZI:	
20	Q You keep referring to the capability. Is	3:26PM
21	the Watch Next queue just a capability or is it an	
22	actual data structure that's stored somewhere?	
23	A Well, again, looking at the claims, there	
24	needs to be a capability that provides a list of media	
25	items for playback. And specifically what data	3:26PM
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- 1	
1	I, LYNNE M. LEDANOIS, a Certified
2	Shorthand Reporter of the State of California, do
3	hereby certify:
4	That the foregoing proceedings were taken
5	before me at the time and place herein set forth;
6	that a record of the proceedings was made by me
7	using machine shorthand which was thereafter
8	transcribed under my direction; that the foregoing
9	transcript is a true record of the testimony given.
10	Further, that if the foregoing pertains to
11	the original transcript of a deposition in a Federal
12	Case, before completion of the proceedings, review
13	of the transcript [] was [x] wasn't requested.
14	I further certify I am neither financially
15	interested in the action nor a relative or employee
16	of any attorney or party to this action.
17	IN WITNESS WHEREOF, I have this date
18	subscribed my name.
19	Dated: February 4, 2023
20	
21	
22	de dans de .
23	Lynne Marie Ledanois
	LYNNE MARIE LEDANOIS
24	CSR No. 6811
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